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sufficiently traveled after exiting the detection area so as to have substantially no influence on the period of the oscillator signal by

- (i) determining the speed of a said vehicle and
 - (ii) calculating the time after vehicle exit based upon the vehicle speed and a predetermined distance from said detection area at which vehicle travel will not influence said period;
- producing a sample measurement value at the calculated time after vehicle exiting; comparing a said reference value and the sample measurement value; and adjusting the reference value, based upon the comparison.

Sub F2

D2

9. (Twice Amended) A method for identifying changes in measured inductance of an inductive sensor used with a vehicle detector, which inductive sensor changes inductance in response to presence of a said vehicle, but which identified changes are determined not to be caused by vehicles, and are, therefore, caused by mechanical difficulties requiring maintenance, the method comprising: measuring inductance of the inductive sensor over a plurality of measurement frame segments; calculating a time rate of change of inductance of the inductive sensor; and identifying existence of mechanical difficulties when the time rate of change of inductance calculated is in a predetermined range outside a threshold rate of change associated with vehicular movement.